

AMENDMENTS TO THE CLAIMS

1-6. (Cancelled)

7. (Original) A method for registering a mobile unit with a communication system including a serving system and a home system, the serving system comprising an interworking MSC (iMSC) and an Internet Protocol Multimedia Subsystem (IMS), the home system comprising a Gateway MSC (GMSC) and a Home Subscriber Server (HSS), the method comprising:

- performing a location update procedure by the mobile unit;
- processing by the serving system the registration by authenticating the mobile unit and informing the HSS of the location of the current serving system;
- determining that the serving system must process the mobile unit as an iMSC; and
- emulating the services of the MSC by the IMS.

8. (Original) A method for registering a mobile unit in accordance with claim 7, wherein the step of performing a location update procedure is done to indicate a change in the serving system.

9. (Original) A method for registering a mobile unit in accordance with claim 7, further comprising the step of originating a call with the serving system.

10. (Original) A method for registering a mobile unit in accordance with claim 9, wherein the step of originating a call with the serving system comprises:

- receiving a call request at the serving system;
- performing interworking between call control procedures between the iMSC and IMS;
- forwarding the call to a Border Gateway Control Function (BGCF) and Media Gateway Control Function (MGCF); and
- interworking between the MGCF and a Public Switched Telephone Network (PSTN).

11. (Original) A method for registering a mobile unit in accordance with claim 7, further comprising the step of performing features and services for the mobile unit within the IMS in the serving system.

12. (Original) A method for registering a mobile unit in accordance with claim 7, further comprising the steps of:

- receiving a call termination by the GMSC in the home system;
- forwarding the call termination to the IMS in the serving system; and
- forwarding the call termination to the iMSC in the serving system.

13. (Original) A method for registering a mobile unit in accordance with claim 12, wherein the step of forwarding the call termination to the IMS comprises:

- forwarding the call termination from the GMSC to the MGCF;
- forwarding the call termination from the MGCF to the I-CSCF; and
- forwarding the call termination from the I-CSCF to the S-CSCF.

14-20. (Cancelled)

21. (Original) A method for registering a mobile unit with a communication system including a serving system and a home system, the serving system comprising a mobile switching center (MSC) and an interworking MSC (iMSC), the home system comprising an Internet Protocol Multimedia Subsystem (IMS) and a Home Subscriber Server (HSS), the method comprising:

- performing a location update procedure by the mobile unit;
- processing by the serving system the registration by authenticating the mobile unit and informing the HSS of the location of the current serving system; and
- determining if the serving system can process the mobile unit as an iMSC.

22. (Original) A method for registering a mobile unit in accordance with claim 21, wherein the step of performing a location update procedure is done to indicate a change in the serving system.

23. (Original) A method for registering a mobile unit in accordance with claim 21, further comprising the step of originating a call with the serving system.
24. (Original) A method for registering a mobile unit in accordance with claim 23, wherein the step of originating a call with the serving system comprises:
- receiving a call request at the serving system;
 - performing interworking between call control procedures by the iMSC in the serving system and the IMS in the home system; and
 - forwarding the call from the IMS to the called party.
25. (Original) A method for registering a mobile unit in accordance with claim 21, further comprising the step of performing features and services for the mobile unit within the IMS in the home system.
26. (Original) A method for registering a mobile unit in accordance with claim 21, further comprising the steps of:
- receiving a call termination by the IMS in the home system; and
 - forwarding the call termination to the iMSC in the serving system.